



Eco-Solar Home Tour 2024

Sunday 9 June Noon to 5 pm

Highwood NZE Home

Tour Day: Sun 9 June

Address:

Hosts: Homeowners

Parking: On street

Energuide Rating: 0

GJ/yr



Summary points why people need to see your home

- It's a Net Zero Deep Energy Retrofit
- It's electrified

What will people see and learn about at your home?

- Exterior wall with low carbon intensity insulation
- Electrification
- Art Studio/Legal basement suite
- Solar PV

What are the main things people will see at your home?

- Now have 1 year of energy efficiency data to share
- Solar
- Exterior wall
- Heat pumps

Are there main items that they can't see?

- Attic, wall/roof, exterior wall insulation
- Crawlspace detailing





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- **Why is this home on the tour?**

This home is one of three Deep Energy Retrofits completed this year as a pilot project in partnership with the SSRIA. The homes are also case studies in a Retrofit Guidebook and Curriculum project with SAIT. There are a number of differences in approach, but the primary difference is the exterior wall insulation system. This home used an 8" exterior "Larsen" wall with blown cellulose insulation.



What features save on energy costs?

- Air tightness
 - Elimination of gas appliance vents
 - Elimination of bath fan penetrations
 - Attic sealing
 - Perimeter spray foam seal
 - New exterior air barrier
 - New windows
 - Air sealed crawlspace
- Insulation
 - 17" R60 loose fill cellulose in attic
 - 8" R30 exterior dense packed cellulose
 - Foundation above grade 4" XPS R16
 - Elimination of original rear bay windows
- Electrification
 - Air Source heat pump heating
 - Heat pump hot water tank
 - Heat pump dryer
 - Induction range
 - Electric fireplace
 - 15.41 kW solar PV



Other special features

- Legal basement suite
- Heated garage Art Studio
- New windows
- Downsized garage door from double to single
- R40 batt & cellulose attic insulation
- Exterior air barrier
- 2" exterior mineral fibre insulation
- Cold Climate Heat pump

